

Message Text

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ACTION EUR-12

INFO OCT-01 ISO-00 CIAE-00 PM-05 INR-10 L-03 ACDA-12
NSAE-00 PA-01 SS-15 SP-02 ICA-11 TRSE-00 CCO-00
OTPE-00 EB-08 FCC-01 OC-06 COME-00 BIB-01 /088 W
-----004505 172046Z /70

P 171904Z MAY 78
FM USMISSION USNATO
TO SECSTATE WASHDC PRIORITY 1641
SECDEF WASHDC PRIORITY
INFO JCS WASHDC PRIORITY
DCA WASHDC PRIORITY

C O N F I D E N T I A L SECTION 01 OF 02 USNATO 04929

SECDEF FOR C3I; JCS FOR J3

E.O. 11652: GDS
TAGS: NATO MARR ETEL
SUBJECT: US REQUIREMENTS FOR USE OF NATO IV COMMUNICA-
TIONS SATELLITE

REF: NAC/4708 (031515ZMAY78) (NOTAL)

SUMMARY. THE JOINT C-E WORKING GROUP (JCEWG) IS BEGINNING ITS RE-EXAMINATION OF OPTIONS FOR THE NATO IV SATELLITE, IN RESPONSE TO PARA (14) OF THE NATO JOINT C-E COMMITTEE (NJCEC) DECISION TRANSMITTED IN REFTEL. JCEWG MEMBERS HAVE BEEN ASKED, INTER ALIA, TO CONFIRM PREVIOUSLY STATED NATIONAL REQUIREMENTS FOR USE OF THIS SATELLITE AND TO INDICATE IN PRINCIPLE IF THEIR NATIONS WILL SHARE IN NATO SPACE SEGMENT COSTS. WE REPORT THE US REQUIREMENTS, AS KNOWN TO THE NATO IS, FOR CONFIRMATION. ACTION REQUESTED: CONFIRMATION OR MODIFICATION OF US REQUIREMENTS AND GUIDANCE ON US COST SHARING IN NATO IV SATELLITE BY JUNE 1 IF POSSIBLE, BUT NOT LATER THAN JUNE 9, 1978.

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1. AT ITS MEETING APR 27-28, 1978, THE NJCEC TASKED THE JCEWG TO REEXAMINE THE TECHNICAL, MANAGERIAL, AND FINANCIAL CONSIDERATIONS ASSOCIATED WITH THE DSCS-III AND NATO-TAILORED OPTIONS TOGETHER WITH PROBLEMS ASSOCIATED WITH NATIONAL REQUIREMENTS FOR NATO IV COMMUNICATIONS SATELLITE. WITH REGARD TO NATIONAL REQUIREMENTS, THE JCEWG WILL CONSIDER INFORMATION PROVIDED EARLIER TO

THE SATCOM WORKING GROUP (SCWG). (CANADA, ITALY, THE NETHERLANDS, PORTUGAL, THE UK, AND THE US STATED REQUIREMENTS.)

2. THE US PRESENTED ITS REQUIREMENTS BY LETTER OF DEC 23, 1976 FROM DCA (CODE 820) TO CHAIRMAN, SCWG ADVISORY PANEL. THESE REQUIREMENTS AS RECORDED BY THE SCWG ARE AS FOLLOWS:

. A. CIRCUITS THROUGH US-OWNED SGT'S IN SUPPORT OF MAINLY TRANSPORTABLE AND MOBILE SGT'S IN EUROPEAN REGION.

- . 16 TELEGRAPH (75 BPS)
- . 1 MULTIPLEXED TELEGRAPH (2.4 BPS)
- . 8 DATA (1.2 KBPS)
- . 8 VOICE (2.4 KBPS)
- . 2 DATA (4.8 KBPS)
- . 11 DATA (9.6 KBPS)
- . 1 DATA (16 KBPS)
- . 1 DATA (32 KBPS)

NOTE. OF THESE, TWO VOICE AND TWO TELEGRAPH CIRCUITS DEPEND ON PRIORITY 3 NATO TRANSPORTABLE SGT'S. ONE TELEGRAPH CIRCUIT CANNOT BE PROVIDED BECAUSE IT DEPENDS ON A DELETED NATO TRANSPORTABLE SGT.

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. B. CIRCUITS THROUGH NATO-OWNED SGT'S:

- . NARROW BEAM 51 VOICE (32 KBPS)
- . 27 DATA (2.4 KBPS)
- . WIDE BEAM 25 VOICE (32 KBPS)
- . 30 DATA (2.4 KBPS)

. C. IMPLEMENTATION OF CIRCUITS THROUGH NATO-OWNED SGT'S (READ IN FIVE COLUMNS)

	PRIORITY OF SGT	NO OF VOICE CIRCUITS	NO OF DATA CIRCUITS	EIRP (W)	BANDWIDTH (MHZ)
. 1	4	5	18	0.40	
. 2	4	10	19	0.41	
. 3	4	5	18	0.40	
. 4	6	14	28	0.61	
DELETED	4	11	19	0.42	

NOTE. "DELETED" PRIORITY SHOWS CIRCUITS PROPOSED THROUGH A NATO SGT NOW DELETED FROM THE PROGRAM.

. D. ASSUMED DISTRIBUTION OF EIRP AND BANDWIDTH
(INCLUDES ALL REQUIRED CIRCUITS REGARDLESS OF SGT PRIORITY
OR DELETION)

SGT TYPE AND LOCATION (W) (MHZ)	EIRP	BW
STATIC IN ACE	242	7.1
STATIC OUTSIDE ACE	110	3.2
TRANSPORTABLE IN ACE	9	0.5
MOBILE NATO WIDE	27	0.4

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TO SECSTATE WASHDC PRIORITY 1642
SECDEF WASHDC PRIORITY
INFO JCS WASHDC PRIORITY
DCA WASHDC PRIORITY

C O N F I D E N T I A L SECTION 02 OF 02 USNATO 04929

TOTAL US REQUIREMENT 388 11.2

3. THE SUMMARY OF NATIONAL REQUIREMENTS FOR POWER AND
BANDWIDTH IS AS FOLLOWS:

NATION (W) (MHZ)	EIRP	BW
CANADA	34	0.3
ITALY	17	0.2
NETHERLANDS	211	0.8
PORTUGAL	6	0.2
UK	200-750	8.0
US	388	11.2

4. THE CHAIRMAN, JCEWG HAS REQUESTED THAT, NOT LATER
THAN JUNE 12, 1978, THE US JCEWG MEMBER:

. A. INDICATE IF THE TABLES ABOVE CORRECTLY REPRESENT THE US REQUIREMENTS.

. B. INDICATE IN PRINCIPLE IF THE US IS WILLING TO CONFIDENTIAL

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CONTRIBUTE TO THE NATO IV SPACE SEGMENT COSTS (ACCORDING TO A FORMULA TO BE DETERMINED), THEREBY ASSURING THE AVAILABILITY OF THE POWER AND BANDWIDTH AGREED UNDER TERMS OF A MEMORANDUM OF UNDERSTANDING TO BE DEVELOPED. ALTERNATIVELY, THE US COULD SEEK TO SATISFY THESE REQUIREMENTS UNDER TERMS OF DPC/D(74)2.

5. IT IS OUR UNDERSTANDING THAT THE NATIONS LISTED IN PARA 3, ABOVE, WILL BE EXPECTED TO SHARE IN THE COSTS OF THE NATO IV SPACE SEGMENT PROGRAM PROPORTIONAL TO THE POWER AND BANDWIDTH OF THEIR REQUIREMENTS. THIS COST SHARING WOULD BE ADDITIONAL TO THE NORMAL INFRASTRUCTURE SHARE FOR THE NATO PORTION OF THE PROGRAM.

6. ACTION REQUESTED: WASHINGTON GUIDANCE ON THE POINTS IN PARA 4, BY JUNE 1 IF POSSIBLE, BUT NOT LATER THAN JUNE 9, 1978. BENNETT

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